Customer No.: 31561

Docket No.: 11586-US-PA Application No.: 10/709,715

## **AMENDMENT**

## To the Claims:

1-7 (Canceled)

8. (Currently amended) A pixel array, comprising:

M\*N pixels, each row of the pixels having a plurality of pixel sets, wherein

the <u>alternating pixel sets j[[th]]</u> and the  $(j+1)^{th}$ -pixel sets from the beginning to the end of the ith row of the pixels substantially have different driving polarity, wherein all of the pixels in the jth pixel set of the ith row of the pixels substantially have same driving polarity, and all of the pixels in the  $(j+1)^{th}$  pixel set of the ith row of the pixels substantially have the same driving polarity, where M, N, i and j are positive integers;

the <u>alternating pixel sets j[[th]]</u> and the  $(j+1)^{th}$  pixel sets from the beginning to the end of the  $(i+1)^{th}$  row of the pixels substantially have different driving polarity, wherein all <u>the</u> of pixels in the j<sup>th</sup> pixel set of the  $(i+1)^{th}$  row of the pixels substantially have same driving polarity, and all of <u>the</u> pixels in the  $(j+1)^{th}$  pixel set of the  $(i+1)^{th}$  row of the pixels substantially have the same driving polarity;

the  $j^{th}$  pixel set of the  $i^{th}$  row of the pixels and the  $j^{th}$  pixel set of the  $(i+1)^{th}$  row of the pixels substantially have different driving polarity; and

the  $(j+1)^{th}$  pixel set of the  $i^{th}$  row of the pixels and the  $(j+1)^{th}$  pixel set of the  $(i+1)^{th}$  row of the pixels substantially have different driving polarity;

a plurality of data lines for respectively providing a corresponding pixel voltage, wherein the polarity of the pixel voltage provided by the k<sup>th</sup> data line is opposite to the

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polarity of the pixel voltage provided by the (k+1)<sup>th</sup> data line, where k is a positive integer

all of the alternating data lines respectively provide the pixel voltages having opposite

polarity; and

a plurality of gate lines, wherein the rth gate line is merely used for turning on all

only odd pixels in the  $j^{th}$  and the  $(j+1)^{th}$  pixel sets of the  $i^{th}$  row of the pixels and only all

even pixels in the  $j^{th}$  and the  $(j+1)^{th}$  pixel sets of the  $(i+1)^{th}$  row of the pixels, where r is a

positive integer.

9. (Previously presented) The pixel array according to claim 8, wherein each pixel

set comprises 3 pixels or a multiple of 3 pixels.

10-11. (Cancel)

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